

10/588124

SEQUENCE LISTING

IAP5 Rec'd PCT/PTO 01 AUG 2006

<110> Locomogene, Inc.,  
St. Marianna University School of Medicine  
Ohta, Tomohiko

<120> CARCINOSTATIC METHOD USING BRCA1-BARD1 PATHWAY

<130> PCT05-0001

<150> US60/541287  
<151> 2004-02-02

<160> 24

<170> PatentIn version 3.2

<210> 1  
<211> 1333  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (101)..(985)

<400> 1  
ggggccctgg tgtgattccg tcctgcgcgg ttgttctctg gagcagcgtt cttttatctc  
60  
  
cgtccgcctt ctctcctacc taagtgcgtg ccgccaccgc atg gaa gat tcg atg  
115  
  
Met Glu Asp Ser Met  
1 5  
  
gac atg gac atg agc ccc ctg agg ccc cag aac tat ctt ttc ggt tgt  
163  
Asp Met Asp Met Ser Pro Leu Arg Pro Gln Asn Tyr Leu Phe Gly Cys  
10 15 20  
  
gaa cta aag gcc gac aaa gat tat cac ttt aag gtg gat aat gat gaa  
211  
Glu Leu Lys Ala Asp Lys Asp Tyr His Phe Lys Val Asp Asn Asp Glu  
25 30 35  
  
aat gag cac cag tta tct tta aga acg gtc agt tta ggg gct ggt gca  
259  
Asn Glu His Gln Leu Ser Leu Arg Thr Val Ser Leu Gly Ala Gly Ala  
40 45 50  
  
aag gat gag ttg cac att gtt gaa gca gag gca atg aat tac gaa ggc  
307  
Lys Asp Glu Leu His Ile Val Glu Ala Glu Ala Met Asn Tyr Glu Gly  
55 60 65  
  
agt cca att aaa gta aca ctg gca act ttg aaa atg tct gta cag cca  
355  
Ser Pro Ile Lys Val Thr Leu Ala Thr Leu Lys Met Ser Val Gln Pro  
70 75 80 85  
  
acg gtt tcc ctt ggg ggc ttt gaa ata aca cca cca gtg gtc tta agg  
403  
Thr Val Ser Leu Gly Gly Phe Glu Ile Thr Pro Pro Val Val Leu Arg  
90 95 100

ttg aag tgt ggt tca ggg cca gtg cat att agt gga cag cac tta gta  
 451  
 Leu Lys Cys Gly Ser Gly Pro Val His Ile Ser Gly Gln His Leu Val  
                   105                                  110                                  115

gct gtg gag gaa gat gca gag tca gaa gat gaa gag gag gag gat gtg  
 499  
 Ala Val Glu Glu Asp Ala Glu Ser Glu Asp Glu Glu Glu Glu Asp Val  
                   120                                  125                                  130

aaa ctc tta agt ata tct gga aag cgg tct gcc cct gga ggt ggt agc  
 547  
 Lys Leu Leu Ser Ile Ser Gly Lys Arg Ser Ala Pro Gly Gly Gly Ser  
                   135                                  140                                  145

aag gtt cca cag aaa aaa gta aaa ctt gct gct gat gaa gat gat gac  
 595  
 Lys Val Pro Gln Lys Lys Val Lys Leu Ala Ala Asp Glu Asp Asp Asp  
                   150                                  155                                  160                                  165

gat gat gat gaa gag gat gat gat gaa gat gat gat gat gat gat ttt  
 643  
 Asp Asp Asp Glu Glu Asp Asp Asp Glu Asp Asp Asp Asp Asp Phe  
                   170                                  175                                  180

gat gat gag gaa gct gaa gaa aaa gcg cca gtg aag aaa tct ata cga  
 691  
 Asp Asp Glu Glu Ala Glu Glu Lys Ala Pro Val Lys Lys Ser Ile Arg  
                   185                                  190                                  195

gat act cca gcc aaa aat gca caa aag tca aat cag aat gga aaa gac  
 739  
 Asp Thr Pro Ala Lys Asn Ala Gln Lys Ser Asn Gln Asn Gly Lys Asp  
                   200                                  205                                  210

tca aaa cca tca tca aca cca aga tca aaa gga caa gaa tcc ttc aag  
 787  
 Ser Lys Pro Ser Ser Thr Pro Arg Ser Lys Gly Gln Glu Ser Phe Lys  
                   215                                  220                                  225

aaa cag gaa aaa act cct aaa aca cca aaa gga cct agt tct gta gaa  
 835  
 Lys Gln Glu Lys Thr Pro Lys Thr Pro Lys Gly Pro Ser Ser Val Glu  
                   230                                  235                                  240                                  245

gac att aaa gca aaa atg caa gca agt ata gaa aaa ggt ggt tct ctt  
 883  
 Asp Ile Lys Ala Lys Met Gln Ala Ser Ile Glu Lys Gly Gly Ser Leu  
                   250                                  255                                  260

ccc aaa gtg gaa gcc aaa ttc atc aat tat gtg aag aat tgc ttc cgg  
 931  
 Pro Lys Val Glu Ala Lys Phe Ile Asn Tyr Val Lys Asn Cys Phe Arg  
                   265                                  270                                  275

atg act gac caa gag gct att caa gat ctc tgg cag tgg agg aag tct  
 979  
 Met Thr Asp Gln Glu Ala Ile Gln Asp Leu Trp Gln Trp Arg Lys Ser  
                   280                                  285                                  290

ctt taa gaaaatagtt taaacaattt gttaaaaaat tttccgtctt atttcatttc  
 1035  
 Leu

tgtaacagtt gatatctggc tgtccttttt ataatgcaga gtgagaactt tccctaccgt

1095

gtttgataaa tggtgtccag gttctattgc caagaatgtg ttgtccaaaa tgcctgttta  
1155

gtttttaaaag atggaactcc accctttgct tggttttaag tatgtatgga atgttatgat  
1215

aggacatagt agtagcgggtg gtcagacatg gaaatgggtgg ggagacaaaa atatacatgt  
1275

gaaataaaac tcagtatttt aataaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa  
1333

<210> 2

<211> 294

<212> PRT

<213> Homo sapiens

<400> 2

Met Glu Asp Ser Met Asp Met Asp Met Ser Pro Leu Arg Pro Gln Asn  
1 5 10 15

Tyr Leu Phe Gly Cys Glu Leu Lys Ala Asp Lys Asp Tyr His Phe Lys  
20 25 30

Val Asp Asn Asp Glu Asn Glu His Gln Leu Ser Leu Arg Thr Val Ser  
35 40 45

Leu Gly Ala Gly Ala Lys Asp Glu Leu His Ile Val Glu Ala Glu Ala  
50 55 60

Met Asn Tyr Glu Gly Ser Pro Ile Lys Val Thr Leu Ala Thr Leu Lys  
65 70 75 80

Met Ser Val Gln Pro Thr Val Ser Leu Gly Gly Phe Glu Ile Thr Pro  
85 90 95

Pro Val Val Leu Arg Leu Lys Cys Gly Ser Gly Pro Val His Ile Ser  
100 105 110

Gly Gln His Leu Val Ala Val Glu Glu Asp Ala Glu Ser Glu Asp Glu  
115 120 125

Glu Glu Glu Asp Val Lys Leu Leu Ser Ile Ser Gly Lys Arg Ser Ala  
130 135 140

Pro Gly Gly Gly Ser Lys Val Pro Gln Lys Lys Val Lys Leu Ala Ala  
145 150 155 160

Asp Glu Asp Asp Asp Asp Asp Asp Glu Glu Asp Asp Asp Glu Asp Asp  
165 170 175

Asp Asp Asp Asp Phe Asp Asp Glu Glu Ala Glu Glu Lys Ala Pro Val  
180 185 190

Lys Lys Ser Ile Arg Asp Thr Pro Ala Lys Asn Ala Gln Lys Ser Asn  
195 200 205

Gln Asn Gly Lys Asp Ser Lys Pro Ser Ser Thr Pro Arg Ser Lys Gly  
210 215 220

Gln Glu Ser Phe Lys Lys Gln Glu Lys Thr Pro Lys Thr Pro Lys Gly  
225 230 235 240

Pro Ser Ser Val Glu Asp Ile Lys Ala Lys Met Gln Ala Ser Ile Glu  
245 250 255

Lys Gly Gly Ser Leu Pro Lys Val Glu Ala Lys Phe Ile Asn Tyr Val  
260 265 270

Lys Asn Cys Phe Arg Met Thr Asp Gln Glu Ala Ile Gln Asp Leu Trp  
275 280 285

Gln Trp Arg Lys Ser Leu  
290

<210> 3  
<211> 12  
<212> PRT  
<213> Artificial

<220>  
<223> primer

<400> 3

Cys Val Met Ser Phe Glu Leu Leu Pro Leu Asp Ser  
1 5 10

<210> 4  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 4

Ala Asp Lys Asp Tyr His Phe Lys  
1 5

<210> 5  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 5

Val Asp Asn Asp Glu Asn Glu His Gln Leu Ser Leu Arg  
1 5 10

<210> 6  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 6

Thr Val Ser Leu Gly Ala Gly Ala Lys  
1 5

<210> 7  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 7

Val Thr Leu Ala Thr Leu Lys  
1 5

<210> 8  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 8

Ser Ala Pro Gly Gly Gly Ser Lys Val Pro Gln Lys Lys  
1 5 10

<210> 9  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 9

Val Pro Gln Lys  
1

<210> 10  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 10

Asp Thr Pro Ala Lys Asn Ala Gln Lys Ser Asn Gln Asn Gly Lys  
1 5 10 15

<210> 11  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 11

Asn Ala Gln Lys Ser Asn Gln Asn Gly Lys Asp Ser Lys  
1 5 10

<210> 12  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 12

Asp Ser Lys Pro Ser Ser Thr Pro Arg Ser Lys  
1 5 10

<210> 13  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 13

Pro Ser Ser Thr Pro Arg Ser Lys Gly Gln Glu Ser Phe Lys  
1 5 10

<210> 14  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 14

Gly Gln Glu Ser Phe Lys  
1 5

<210> 15  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 15

Lys Gln Glu Lys  
1

<210> 16  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 16

Gly Pro Ser Ser Val Glu Asp Ile Lys  
1 5

<210> 17  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 17

Met Gln Ala Ser Ile Glu Lys Gly Gly Ser Leu Pro Lys  
1 5 10

<210> 18  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 18

Val Glu Ala Lys Phe Ile Asn Tyr Val Lys  
1 5 10

<210> 19  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 19

Phe Ile Asn Tyr Val Lys Asn Cys Phe Arg  
1 5 10

<210> 20  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 20

Met Thr Asp Gln Glu Ala Ile Gln Asp Leu Trp Gln Trp Arg  
1 5 10

<210> 21  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 21

Val Thr Leu Ala Thr Leu Lys  
1 5

<210> 22  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 22

Leu Leu Ser Ile Ser Gly Lys  
1 5

<210> 23  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 23

Gly Pro Ser Ser Val Glu Asp Ile Lys Ala Lys  
1 5 10

<210> 24  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 24

Phe Ile Asn Tyr Val Lys  
1 5